

FIG. 1

large bio-molecules
in solution or solid matrix

Liquid or solid
sample

Nebulization or
Laser Desorption

large bio-
molecules
In gas stream
solvent/matrix
removed if desired

Oxidizer
(Pyrolyzer)
and Traps

AMS Ion
Source

Accelerator
Mass
Spectrometer

20

22

18
24

FIG. 2

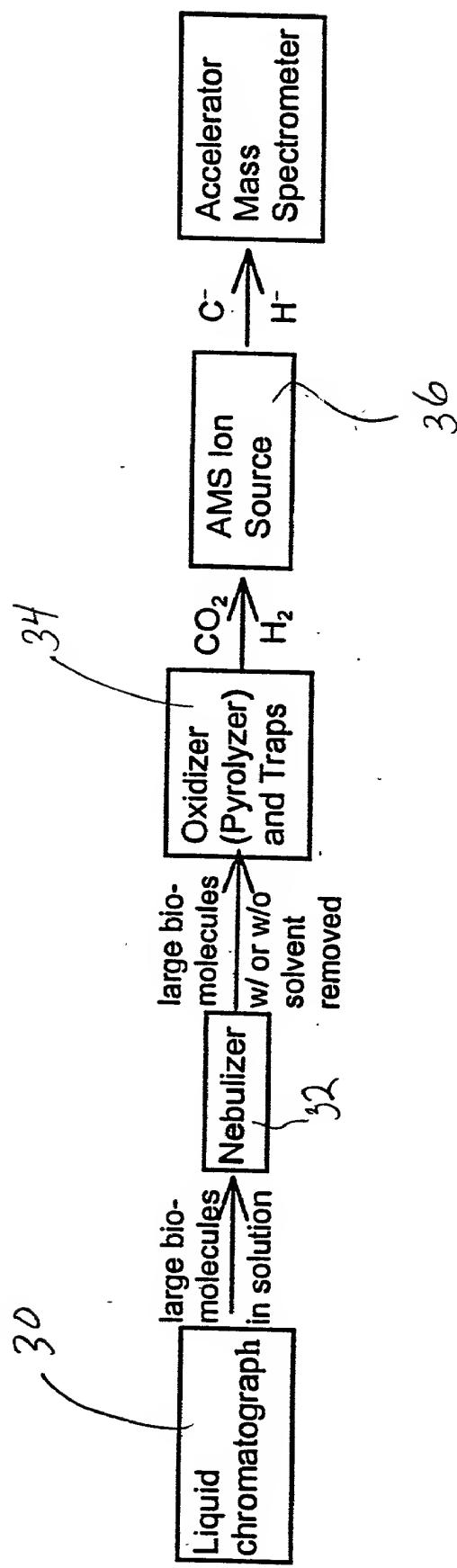


FIG. 3

quad. spray gun and spray gun in base stage base stage

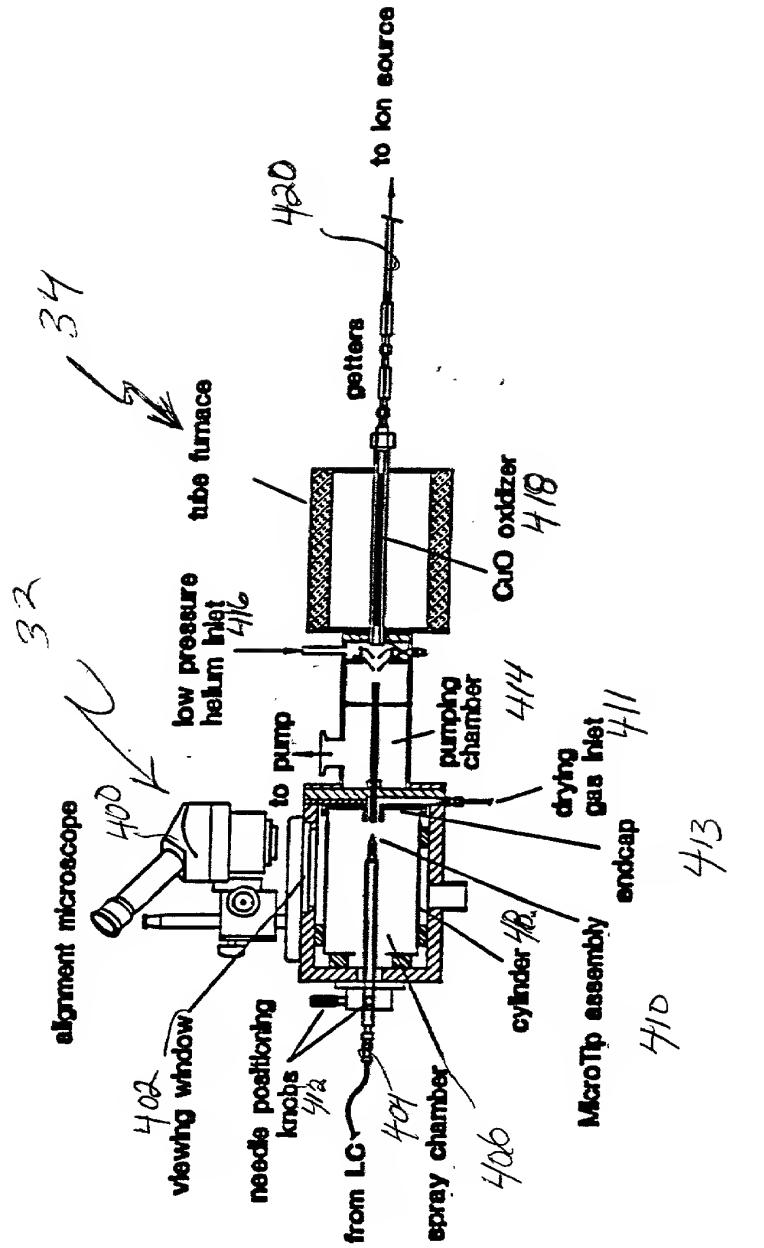


FIG. 4A

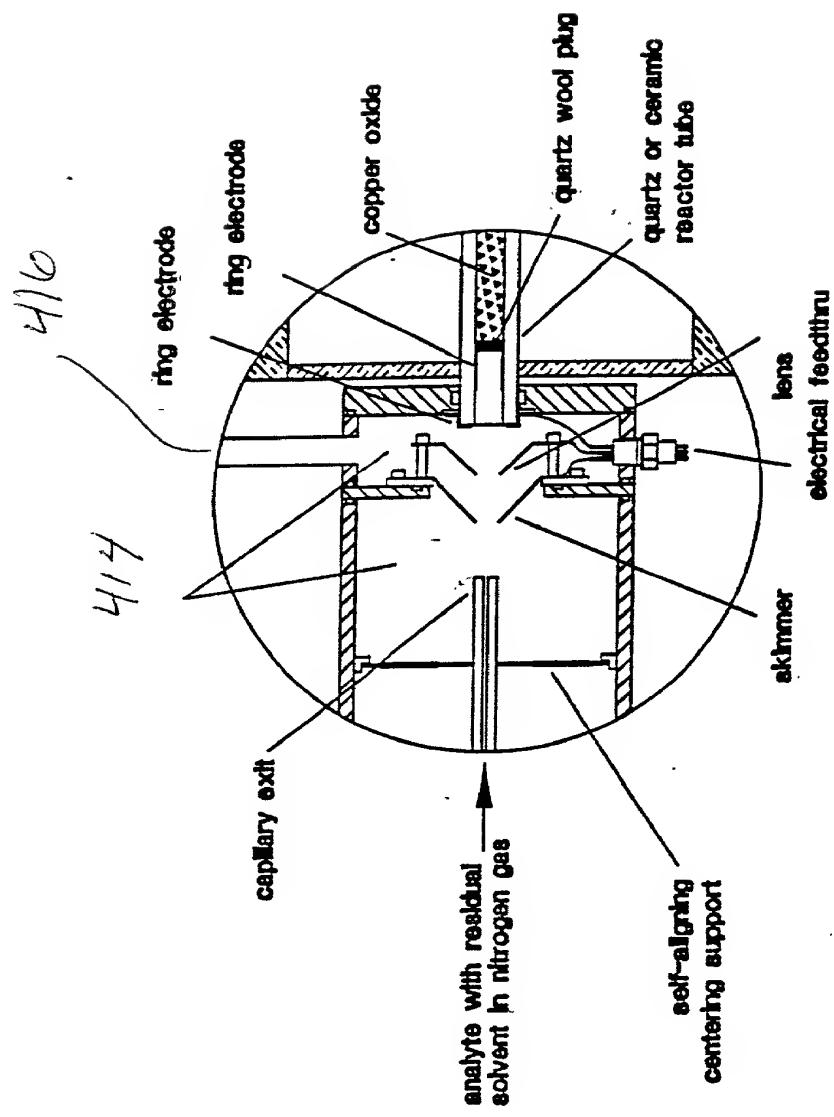


FIG. 4B

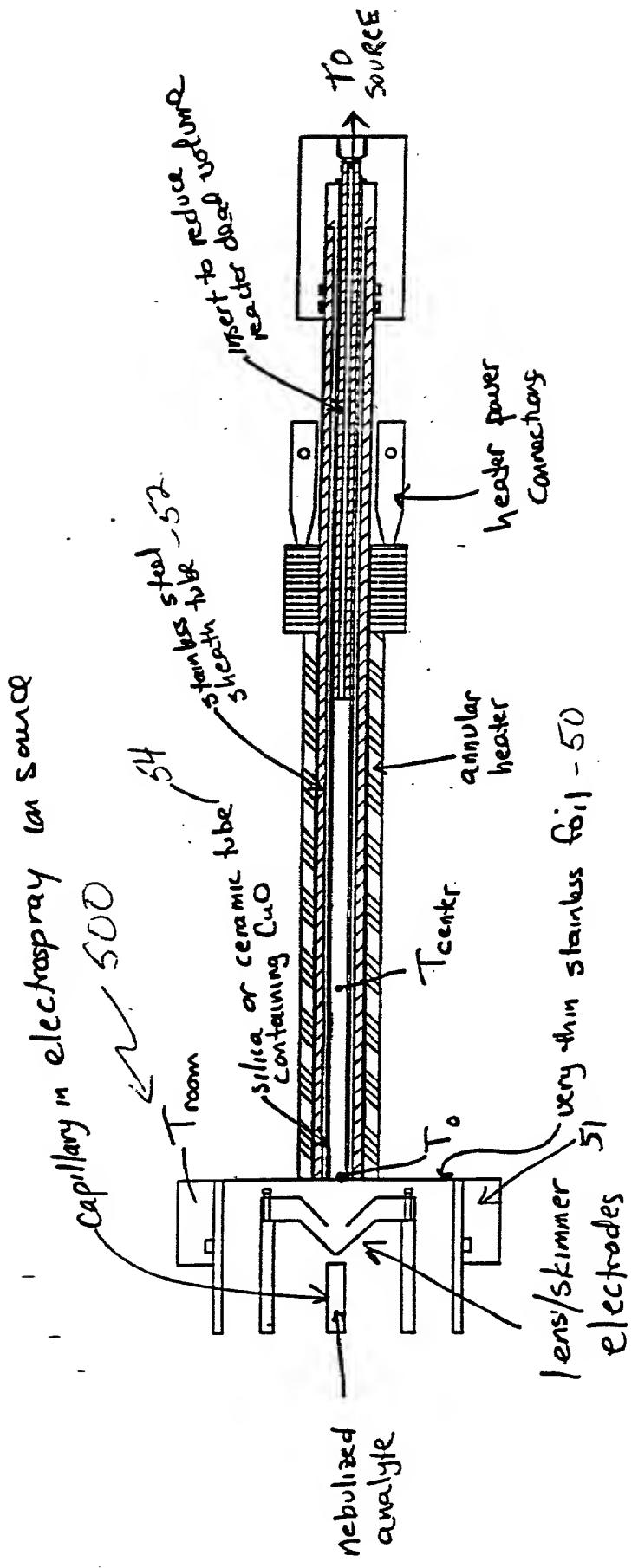


FIG. 5.

FIG. 6B

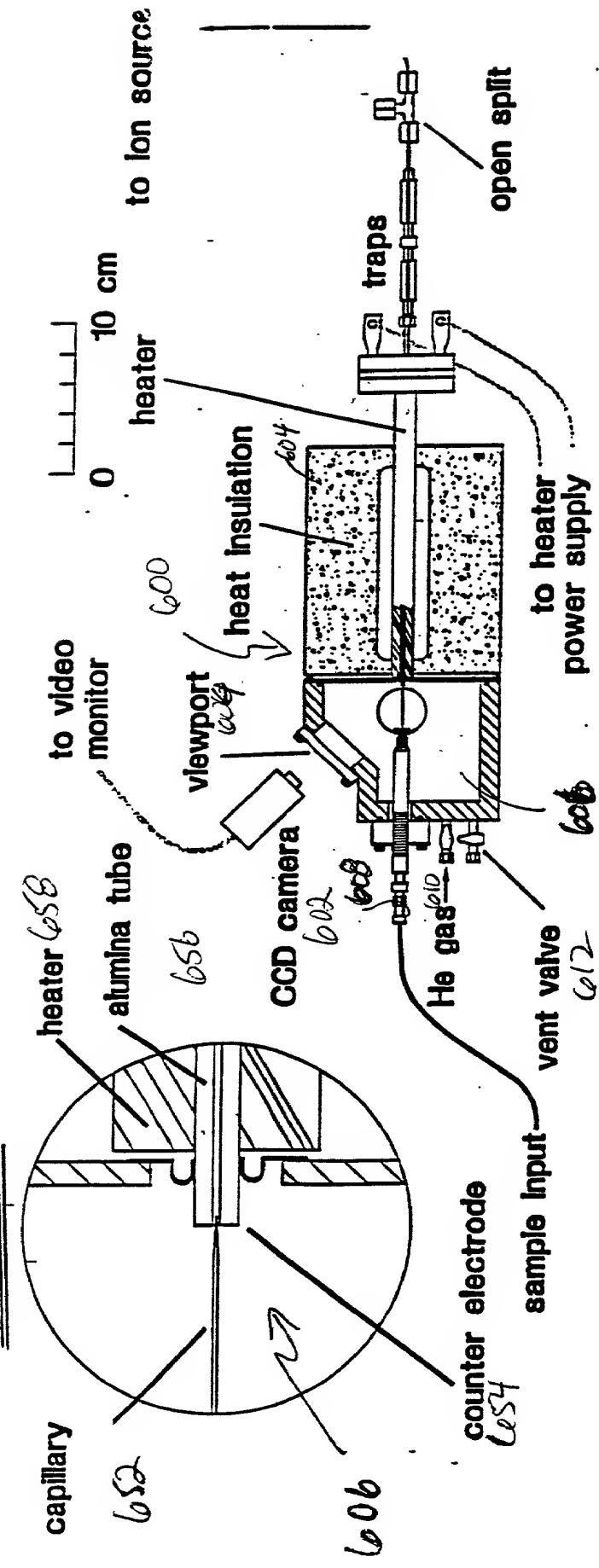


FIG. 6A

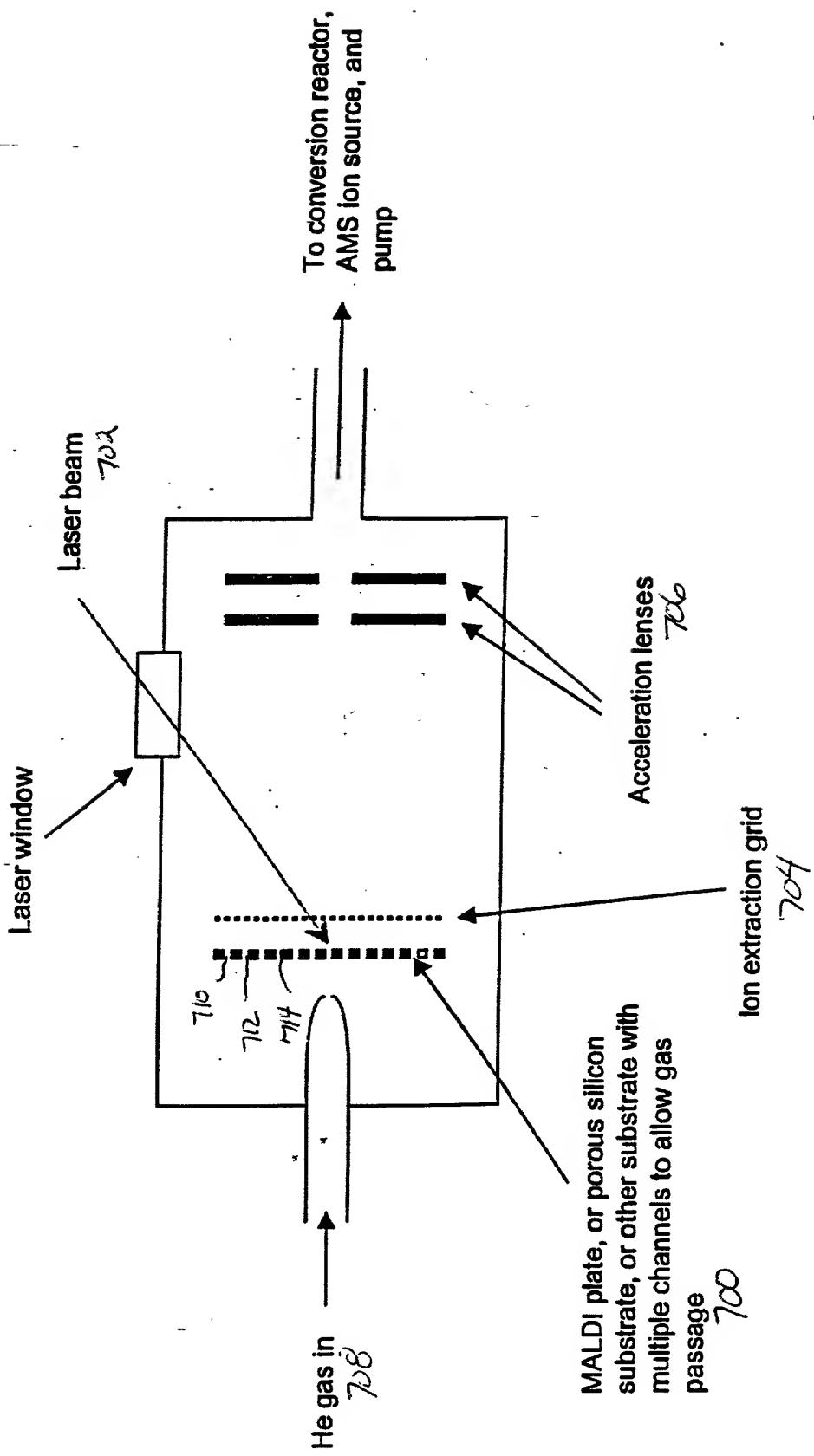


Fig. 7

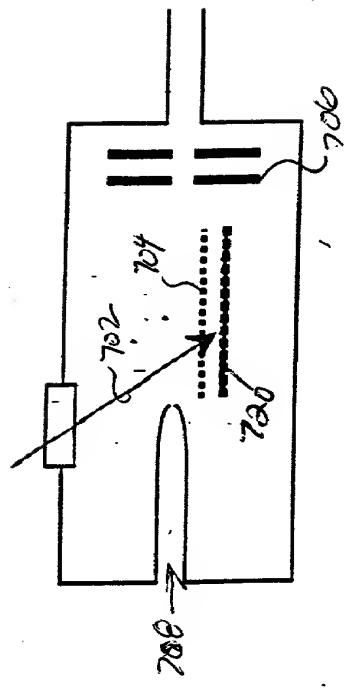


FIG. 8A

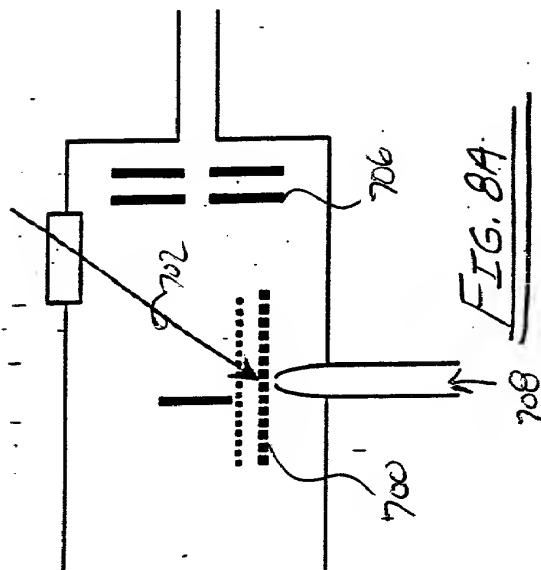


FIG. 8B

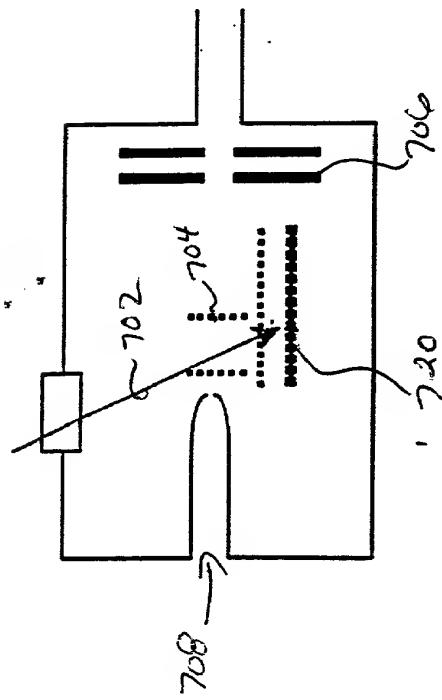


FIG. 8C

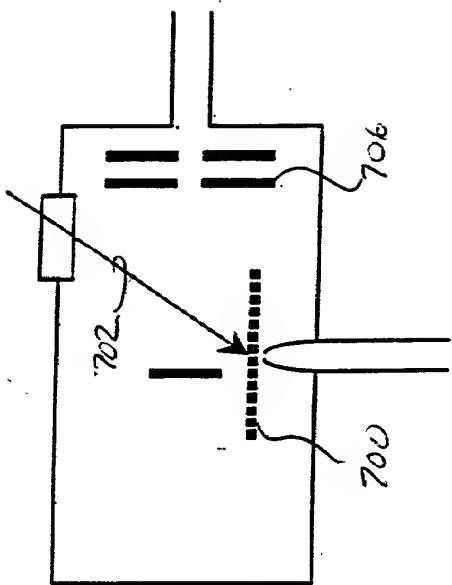


FIG. 8D

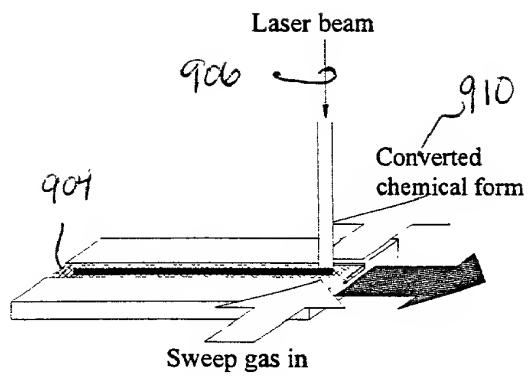
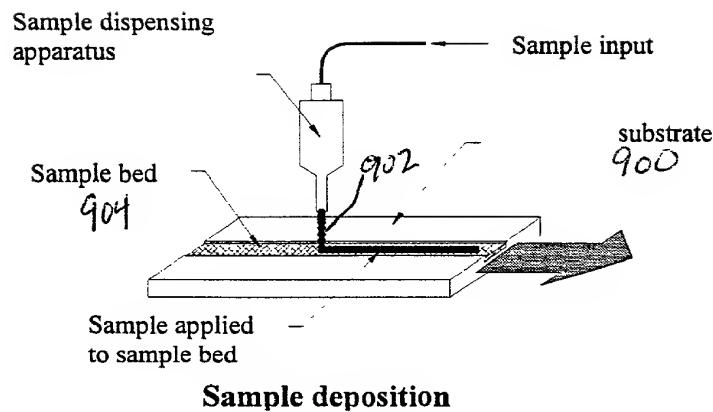


FIG. 9A

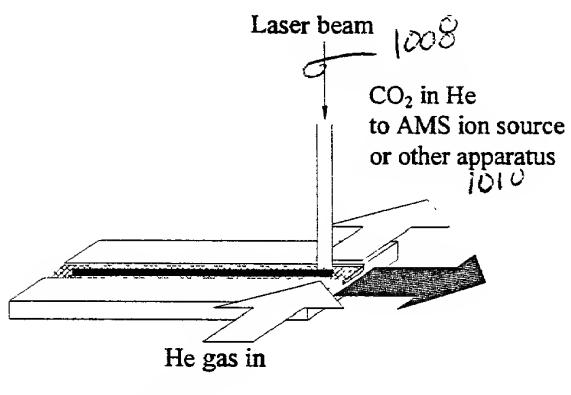
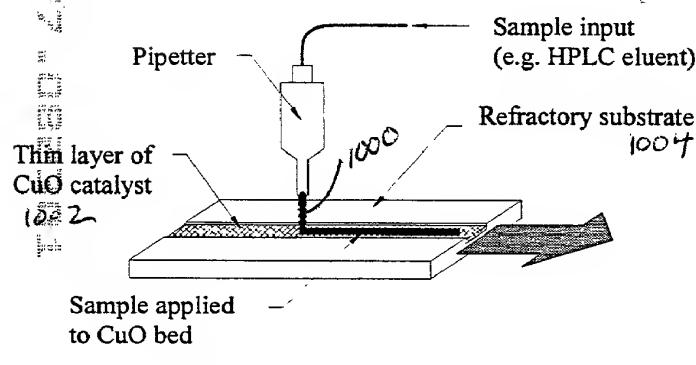


FIG. 10A

FIG. 10B

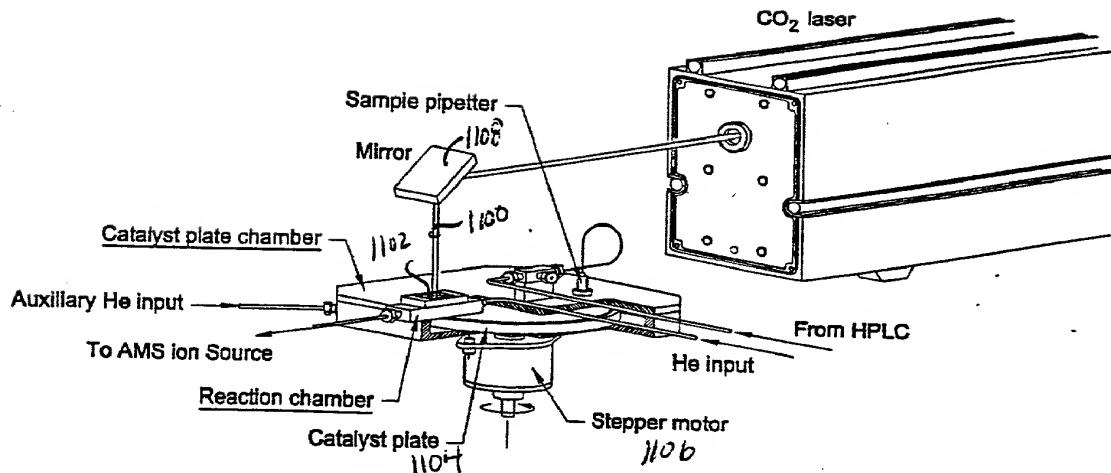


FIG. 11A

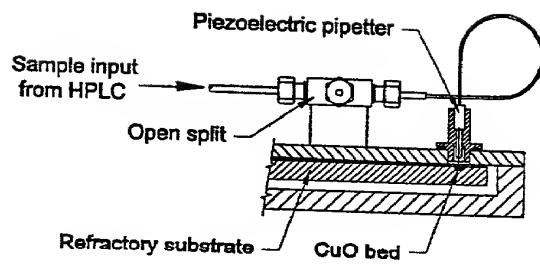
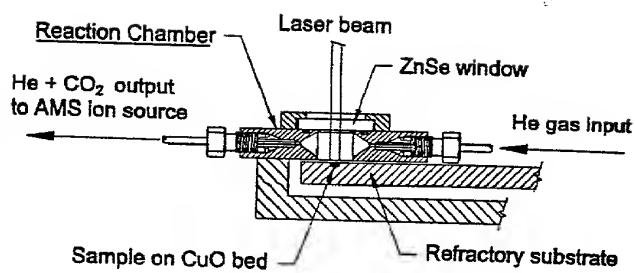


FIG. 11C

FIG. 11B

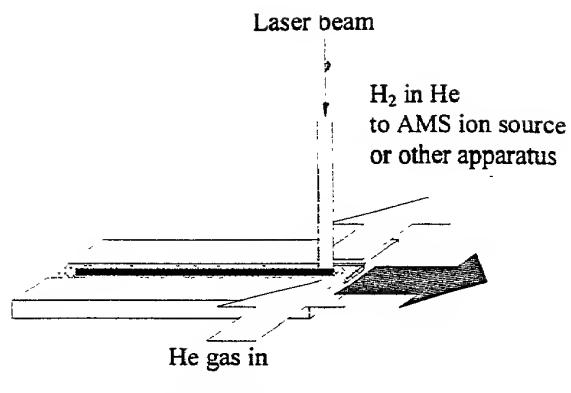
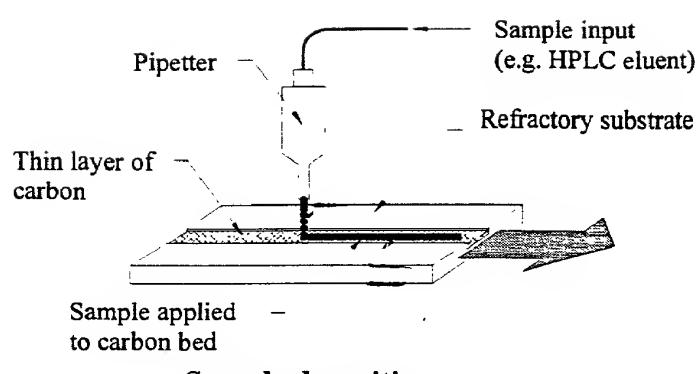


FIG. 12A

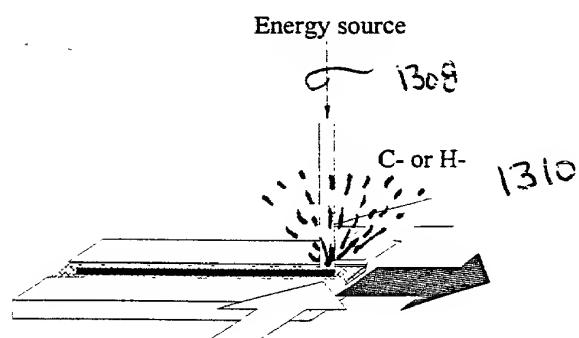
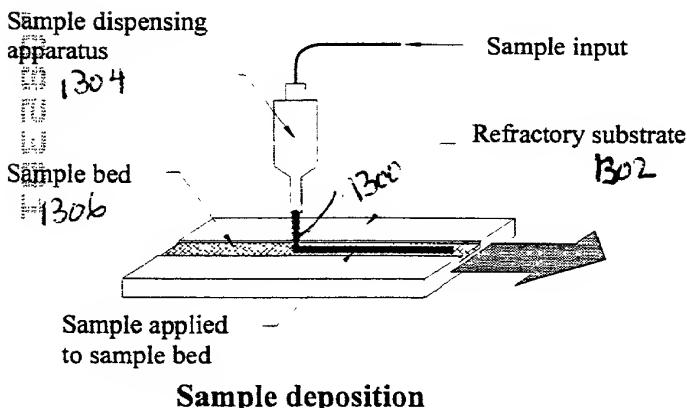


FIG. 13A

FIG. 13B

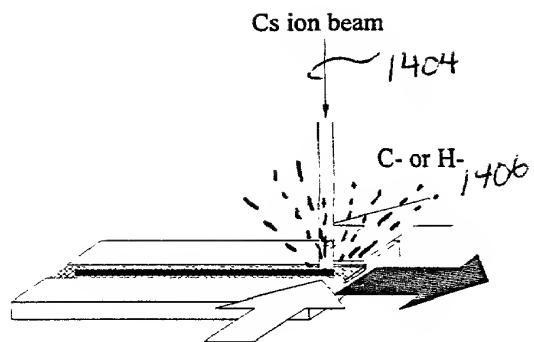
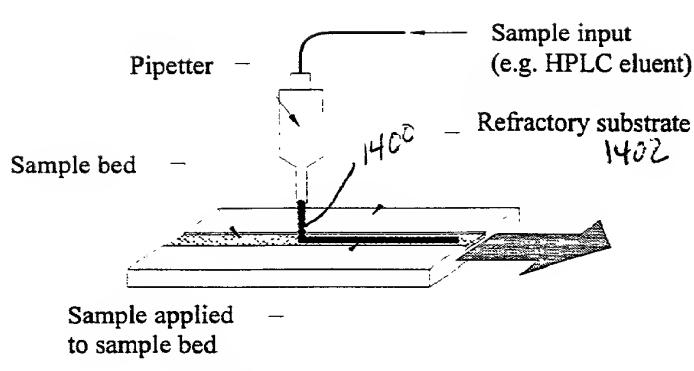


FIG. 14A

FIG. 14B

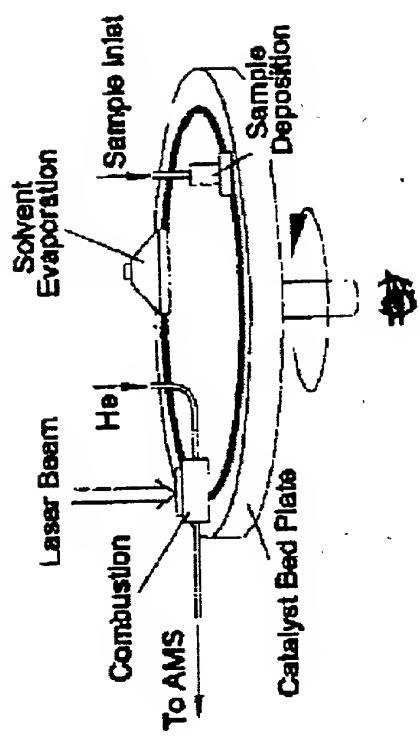


Fig. 15

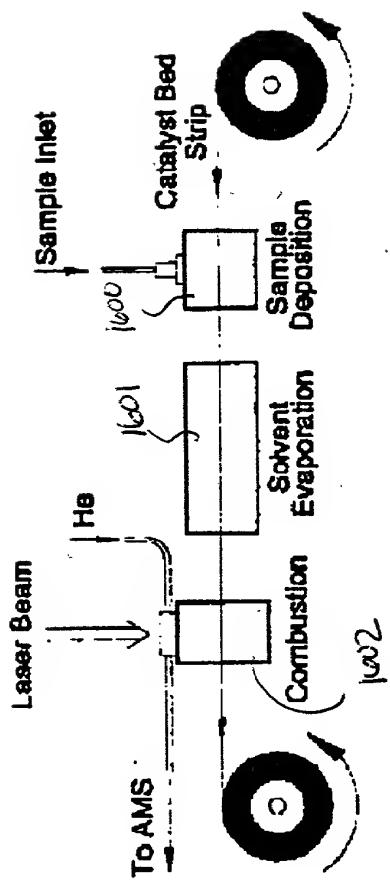


Fig. 16